

Title (en)
ELECTRODE ARRANGEMENT FOR AN ELECTRODYNAMIC FRAGMENTATION PLANT

Title (de)
ELEKTRODENANORDNUNG FÜR EINE ELEKTRODYNAMISCHE FRAGMENTIERUNGSANLAGE

Title (fr)
SYSTÈME D'ÉLECTRODES POUR UN DISPOSITIF DE FRAGMENTATION ÉLECTRODYNAMIQUE

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Application
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• CH 2012000054 W 20120308

Abstract (en)
[origin: WO2012129708A1] The invention relates to an electrode arrangement for an electrodynamic fragmentation plant having a through-passage opening (1) for fragmentation material (3) and having a plurality of electrode pairs (4a, 5a; 4a, 5b; 4b, 5c; 4b, 5d; 4c, 5e; 4c, 5f; 4d, 5g; 4d, 5h), by means of which, by subjecting the electrodes (4a-4d, 5a-5h) thereof to high-voltage pulses, in each case high-voltage discharges can be generated within the through-passage opening (1) in order to fragment the fragmentation material (3). In this case, the through-passage opening (1) is formed in such a way and the electrodes (4a-4d, 5a-5h) of the electrode pairs are arranged therein in such a way that for each electrode pair (4a, 5a; 4a, 5b; 4b, 5c; 4b, 5d; 4c, 5e; 4c, 5f; 4d, 5g; 4d, 5h) a ball (K) can pass through the through-passage opening (1) in the region of the shortest connecting line (L) between the electrodes of each electrode pair, the diameter of said ball (K) being greater than the length of this respective shortest connecting line (L). With such an electrode arrangement, it is possible to carry out an electrodynamic fragmentation of fragmentation material in an economical manner with comparatively small high-voltage pulses. This also results in the possibility of expanding the realizable target value range of existing plants considerably in the direction of larger target values by retrofitting such plants with the electrode arrangement according to the invention.

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